

### TERMINAL LEARNING OBJECTIVE

Apply the risk management process to **Army Motor Vehicle** operations (wheel and tracks), in accordance with AR 600-55, AR 385-55 and FM 100-14.

#### PAST HISTORY CAUSES

- Speeding/too fast for conditions
- Following too close
- Backing without ground guides
- Misjudging clearance
- Inattention

### SOURCES OF HUMAN ERROR

Individual

Training

Leader

Standards

Support



### INDIVIDUAL

Self-discipline (Soldier knows and is trained to standard, but does not follow the standards).

#### **DRIVER FAILURES**

- SPEEDING
- BACKING W/O A GROUND-GUIDE
- FOLLOWING TOO CLOSE
- INATTENTION

#### TRAINING

Training is insufficient, incorrect, or no training is given for the task.

#### **DRIVER FAILURES**

- DRIVING TOO FAST FOR CONDITIONS
- BACKING W/O A GROUND-GUIDE
- FOLLOWING TOO CLOSE
- MISJUDGING CLEARANCE

#### LEADER

Leader does not enforce known standards, or improperly supervises.

#### **FAILURES**

- INADEQUATE DRIVER TRAINING
- INADEQUATE PROCEDURES
- LACK OF CORRECTIVE ACTION

### STANDARDS

## Standard or procedure is not clear, practical, or none existent.

#### **FAILURE**

- MATERIAL FAILURE
- WRONG ACTION/PROCEDURE

DRIVING HAZARDS

### SUPPORT

Inadequate facilities/services, equipment or material is improperly designed or not provided.

**FAILURES** 

- INADEQUATE DRIVER TRAINING
- DRIVING HAZARDS
- MATERIAL FAILURE
- MISUSE OF TOOLS/EQUIPMENT

### SAFE DRIVING OPERATION

#### Commanders will ensure:

- Drivers do not drive more than 10 continuous hours.
- Combined duty will not exceed
   12 hrs in 24 hr period without 8
   consecutive hrs of rest.
- Driver will take 15-min rest breaks every 2 to 3 hours of driving every 100 to 150 miles.

### SAFE DRIVING OPERATION

- Qualified assistant driver assigned for more than 10 hrs.
- Headphones or earphones are prohibited while driving.
- Drivers will not eat, drink, or smoke while vehicle is in motion.

**CHAPTER 2-15** 

### SAFE DRIVING OPERATION

Prior to dispatch, perform a good preventative maintenance, checks, and services (PMCS) to prevent:

- Any condition likely to cause injury or component failure.
- Improperly secured load.
- Unsafe transport of personnel.
- Vehicle load capacity exceeded.

#### FIRE PREVENTION

- Free Of Gasoline Leak & Class III
   Diesel, Oil, & Water Leaks.
- Electric Lamps Must Meet
   National Electric Code Standards
   (NEC)
- No Smoking In Shops, Garages, Or Motor Pool

#### FIRE PREVENTION

No Smoking in Parking areas.

(Except in designated area)

- When refueling turn Off engine, put in low range
- Set parking brake, or chock chawhæels.

- Flammable
- Ammunition
- Poisons
- Combustibles

- Placarding requirements comply with Title 49, Code of Federal Regulation and host nation.
- Load blocked and braced IAW DOT regs.

#### Training Requirements For Drivers

- Emergency Equipment.
- Forms & Records (Accident Reporting)
- Records of Training Maintained.
- Recurrent Training Every Two Years.

#### Drivers will:

- Follow preplanned route.
- Park To limit exposure.
- At no time park less than fire separation distance (National Fire Protection Association).

- Containers must meet DOT regulations.
- No riders on or in cargo area transporting explosives, fuel, or other hazardous material.
- Explosives transport prohibited in passenger compartment of MHE, or commercial AMVs.

### SAFETY EQUIPMENT

- Seat Belts Will Be Worn By All.
- Eye protection will be worn (no windshield, or windshield down).
- Kevlar Helmets Or combat vehicle crewman (CVC) worn while combat vehicles are operated.

### SAFETY EQUIPMENT

- All trailers equipped with safety chains.
- Low beam lights on public highways.
- Highway warning kits & SOPs.
- Chock blocks equipped & used incline or maintenance.

- Transported In Sedans, Wagons, or Buses.
- When tactical vehicle is used
  - Not last vehicle in convoy
  - Adequate fixed seating
  - Personnel seated while vehicle is in motion

- Short distance on-post no fixed seating
- Number of passengers restricted to designated seating for long distances

Before starting the vehicle, drivers transporting personnel must place the vehicle in 1st gear or park, and set the hand brake then:

- Check tailgate, safety strap and ensure passengers are seated.
- After stopping, release safety device and lower tailgate.

- Driver will not back vehicle before checking.
- Clearance & giving warning.
- Use ground guide when rear view is blocked.

- Use ground guides for all buses, 12 passenger or greater vehicle & 2 1/2 ton & greater.
- Keep Ground Guides In View At All Times.
- If ground guides not available, dismount, Go To Rear & Check Clearance.

### TACTICAL VEHICLE OPERATIONS

- Before vehicles move in assembly crew member will walk around vehicle to ensure no one is in danger.
- Ground guide required in the front & rear and visible to each other & driver.
- Wheel vehicles require 2 ground guides when backing with vision restricted.

### TACTICAL VEHICLE OPERATIONS

- Commanders will apply safety standards to include:
  - Speed limits
  - Passengers transport standards
  - Vehicle maintenance
- Deviations only by the unit commander in training.

### TACTICAL VEHICLE OPERATIONS

 Commanders will evaluate risk versus training benefit.

 Safety Procedures in SOP's for training.

#### INSTALLATION COMMANDERS

- Over all responsible
- No lower than BN level

# DRIVER TRAINING PROGRAM RESPONSIBILITIES

#### COMPANY COMMANDER

- Develop & Publish Guidance For Interviews & Selection.
- Operators are properly licensed
   & trained.
- Drivers Licensed And Training Forms & Records IAW AR 600-55.

#### RESPONSIBILITIES

#### SQUAD LEADER

- Safe driving practices IAW AR 385-55.
- Operator maintenance
- Loading techniques
- Spot checks & supervises
- Review records and forms

#### RESPONSIBILITIES

#### **OPERATOR**

- Operate vehicles in a safe manner.
- Wear installed restraint systems.
- Insure cargo is properly loaded, secured and protected.

# RESPONSIBILITIES SENIOR OCCUPANT

- Will not permit a driver who appears fatigued, physically, mentally or emotionally impaired to operate the vehicle.
- Assist driver in recognizing unsafe traffic situations.
- Overall responsibility for safety of the occupants.

#### LICENSE REQUIREMENTS AR 600-55

Personnel who operate a government owned or leased, must be:

- Trained, tested & issued an (OF 346)
   US. Govt. motor vehicle operators identification card.
- Driving off installation (in U.S.) must have a valid OF 346 & valid civilian drivers license.

#### LICENSE REQUIREMENTS

- Driving on the installation within the U.S., Occupation Specialty (MOS), are not required to have a civilian driver license, but must have a valid OF346.
- Driving outside the U.S. operators must have a valid OF 346, and meet additional host nation and MACOM requirements.

#### **SELECTION PROCESS**

STEP1: SCREEN RECORDS

- DA FORM 2-1
- DA FORM 348
- MEDICAL RECORDS (PROFILES)

#### SELECTION PROCESS

STEP2: INTERVIEW

- MATURITY
- ATTITUDE
- DRIVING HISTORY

### **SELECTION PROCESS**

SAMPLE INTERVIEW QUESTIONS

- How old are you?
- Do you have a valid State driver license?
- How many times have you been cited for a traffic violation?
- How do you account for your good or poor driving record?

### **SELECTION PROCESS**

Step 3 - Conduct physical evaluation measures test.

- VISUAL
- FIELD OF VISION
- DEPTH PERCEPTION
- COLOR PERCEPTION
- FOOT REACTION TIME
- HEADING TECT

### **SELECTION PROCESS**

STEP4: Consider the categories of candidates.

- Previous experience
- Limited experience
- No experience

### **TYPES OF TRAINING**

### 1. Qualification Training

Academic subjects such as:

- Drivers responsibilities.
- Laws and regulations.
- Vehicle maintenance
- Driving techniques.
- Accident avoidance training (TC21-305).

### **TYPES OF TRAINING**

- Refresher/sustainment training to maintain a high level of driving skills.
- 3. Remedial training to ID and correct weakness and not to punish.

### TYPES OF TESTS

Upon completion of qualification training the driver must complete two test:

- Written examination.
- Driving test (road test)

### **INSTRUCTOR REQUIREMENTS**

- Appoint in writing.
- Licensed to operate the equipment used for the training.
- Must have technical knowledge and experience.
- Must be certified in writing by the commander, to ensure knowledge of subject and teaching ability.

### **FORMS**

DA Form 348 is maintained on every person who operates a vehicle owned or leased by the Army. It also provides:

- A complete history.
- To record operator qualifications, performance, and test results.

### **FORMS**

The OF 346 applies to all who operate any gov't owned or leased vehicle. The OF 346 provides:

- ID of the driver.
- List the types of vehicle qualified to operate.
- List restrictions.
- Other records.

### **FORMS**

The OF 346 will be stamped or marked legibly on the front to denote the type of permit issued:

- Army Standard
- Army Learner
- Army Incidental
- Army Limited

## TSP Requirements AR 350-XX

TRACKED VEHICLE TSPs	TC 21-306 SERIES
Accident Avoidance	21-306
Tank Series	21-306-01
Bradley Series	21-306-02
Field Artillery Series	21-306-03
Engineer Series	21-306-04
113 / 577 Series (C2)	21-306-05
Recovery Series	21-306-06
NVG / NVD	21-306-xx

WHEELED VEHICLE TSPs	TC 21-305 SERIES
Accident Avoidance	21-305
HEMTT (8 & 10 Ton)	21-305-01
NVG / NVD	21-305-02
5-Ton (939 Series)	21-305-03
HMMWV	21-305-04
C-HET	21-305-05
Truck Tractor	21-305-06
LT Vehicle	21-305-07
Medium Vehicle	21-305-08
HET (M1070/M1000)	21-305-09
PLS	21-305-10
FMTV	21-305-11

## SUMMARY

- ELO 9- Leadership responsibilities for the Drivers training program
- ELO 10- Identify license requirements to operate Army motor vehicles
- ELO 11- Identify steps for selecting non-school trained driver candidates
- ELO 12- Identify types of training for drivers

## SUMMARY

ELO 13- Identify types of tests required to complete drivers training

ELO 14- Identify qualification requirements for driver's training instructor

ELO 15- List forms used in Drivers Training

ELO 16- Identify the types of OF 346 permits



### **NCO RESPONSIBIITIES:**

- Enforce NVD training program.
- Enforce speed limitations for all modes of driving.
- Understand the device limitations.
- Ensure qualification & refresher training is conducted IAW AR 600-55.

### TRAINING MATERIALS:

- FM 21-305
- TC 21-305-2
- TC 21-306
- TM applicable for NVD model.
- AR 600-55 (Chapter 8)

### **INSTRUCTOR QUALIFICATIONS:**

- Instructor training will comply with TCs & AR 600-55 (Chap 8).
- Qualified on specific NVD & Vehicle designated for instruction.
- Also, must be designated in writing by the commander as a certified instructor for that equipment.

#### **INSTRUCTOR RESPONSIBILITIES:**

- Implement the commander's program.
- Conduct qualification & refresher training.
- Administer road tests.
- Keep the commander informed of the overall status of the unit NVD profile.
- Document qualification & refresher training on OF 346 & DA Form 348 (section I & III).

## NVD ACADEMICS

## At minimum, training will include:

- Introduction to NVD model.
- Device limitation awareness.
- Depth perception, visual acuity and field of vision.
- Illumination requirements.
- Speed limitations.

## NVD ACADEMICS

## At minimum, training will include (cont..):

- Scanning techniques.
- Emergency procedures.
- Driver/assistant driver responsibilities.
- Self-imposed stresses.
- Care and security of NVDs.
- \* Must pass a written exam.

## PROFICIENCY TRAINING

The operator will receive hands-on instruction while driving under the following provisions:

- Task will be performed in Phase sequence (Task list - AR 600-55).
- Under the supervision of a qualified NVD instructor (equipped with NVDs during night driver training).

## PHASES OF TRAINING

The operator will receive hands-on instruction while driving, in sequence:

- Phase I Drive vehicle in daylight familiarize with terrain/road.
- Phase II Using headlights (same route), at night w/o NVDs.
- Phase III Pre-op check NVD, proper wear & fit, focus, vehicle PMCS w/NVD, refocus NVD prior to Phase IV.

## PHASES OF TRAINING

The operator will receive hands-on instruction while driving, in sequence (cont..):

- Phase IV Drive over same route with NVD on. ID markers, signs, terrain. Distinguish shadows from features.
- Phase V Perform vehicle PMCS w/NVDs. Perform post-operation check on NVD. Conduct AAR.

## QUALIFICATION REQUIREMENTS

To be qualified and licensed on NVDs, motor vehicle operators must:

- Be licensed & current on vehicle receiving NVD training on.
- Complete academic & driving requirements (Phases).
- Successfully complete an NVD performance test given by an NVD instructor.

## REFRESHER TRAINING

Refresher training will be conducted for motor vehicle operators who have not participated in a NVD driving mission in the past 6 months (USAR & ARNG: 12 months) to maintain or regain proficiency. Minimum requirements for refresher training are:

- Demonstrate proficiency in qualification tasks.
- Successfully complete performance test by NVD instructor.

## SUMMARY

- ELO 18- NCO Responsibilities for NVD Training
- ELO 19- List the types of training material available for NVD Training
- ELO 20- Identify NVD Instructor qualifications and responsibilities
- ELO 21- Identify NVD training requirements
- ELO 22- Identify NVD qualification

# QUESTIONS?

